

FIG. 1

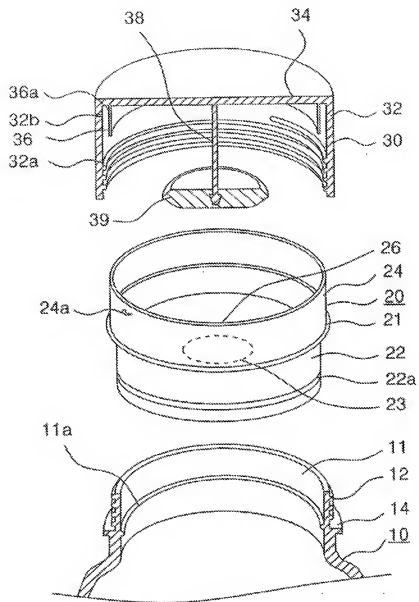


FIG 2A

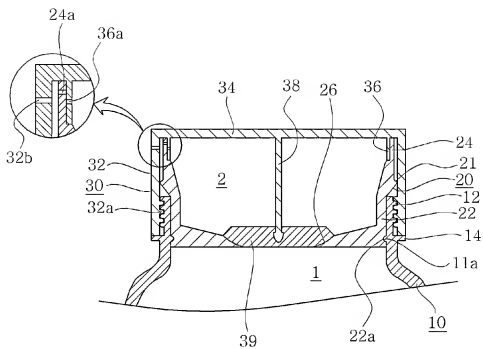


FIG 2B

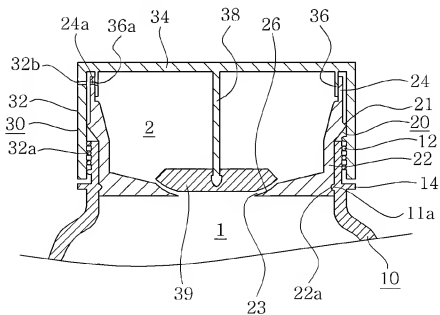


FIG. 2C

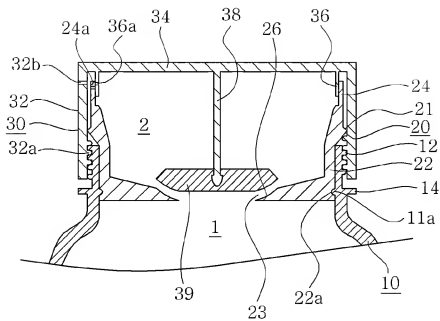


FIG. 4

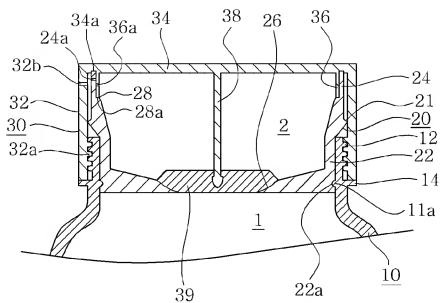


FIG. 5

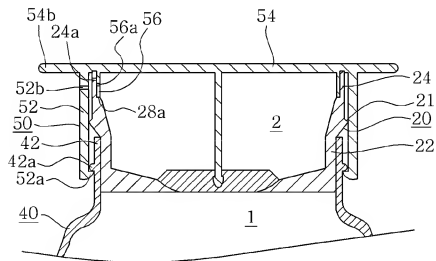


FIG. 7A

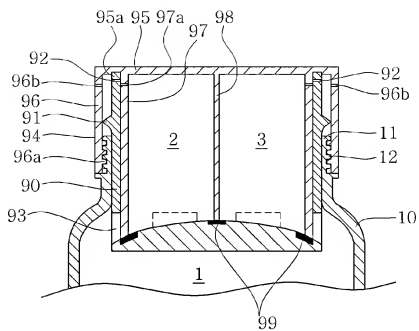


FIG. 7B

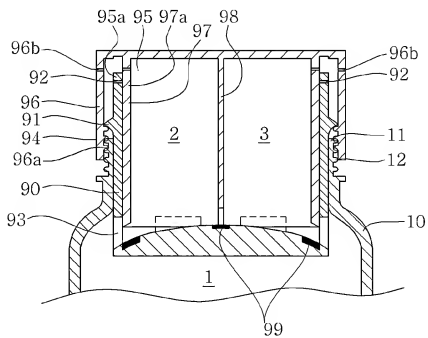


FIG8

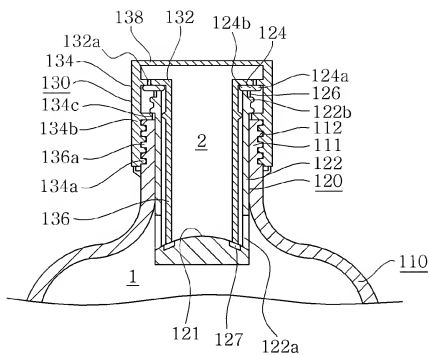


FIG. 9

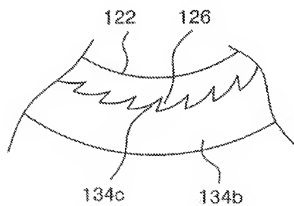


FIG. 10A

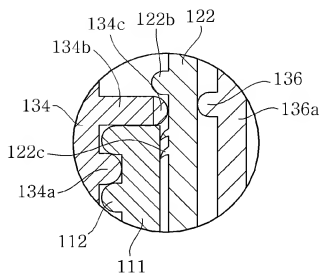


FIG. 10B

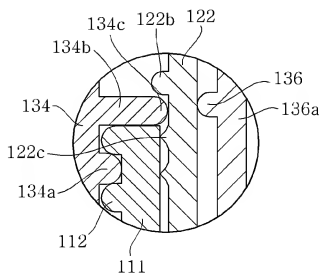


FIG 11B

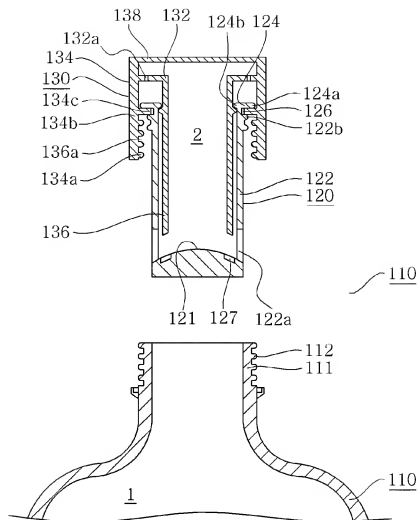


FIG 12

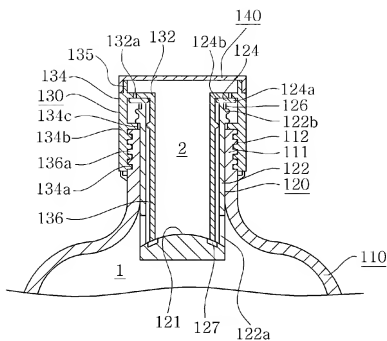
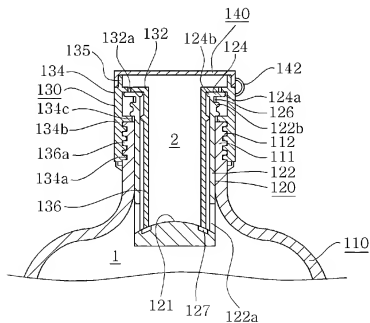


FIG 13



This cross-sectional view shows a central channel (120) flanked by side regions (122, 122a). The channel is bounded by a top layer (140) and a bottom layer (121). The side regions are separated from the channel by a barrier layer (124). The device is mounted on a substrate (110) with a base layer (128) and a contact layer (127). Various other layers and structures are labeled with reference numerals 130 through 144.

FIG 16

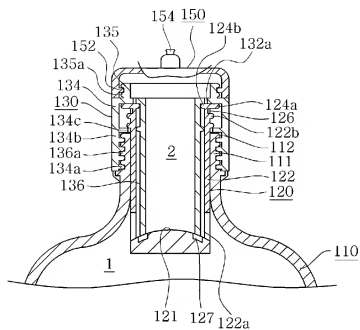
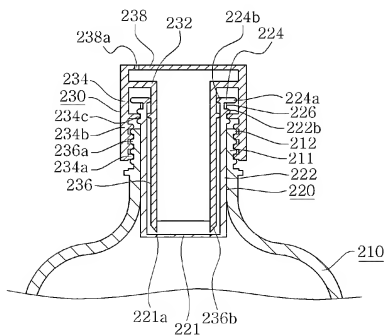


FIG 17



[illegible]

FIG 18

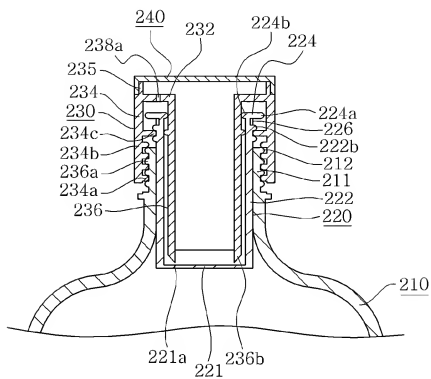


FIG. 20

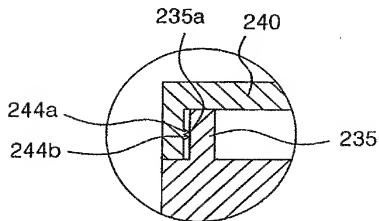


FIG 21

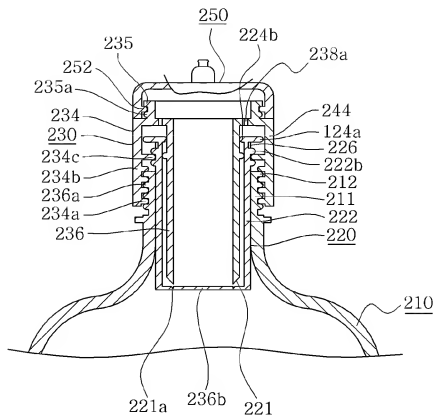


FIG. 22

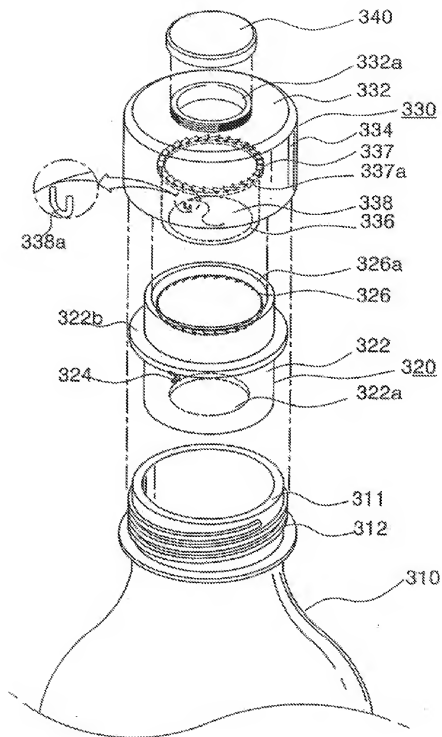


FIG. 23

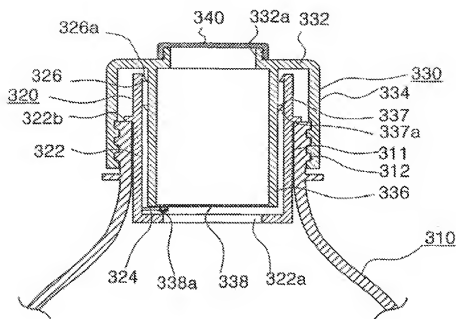


FIG. 24A

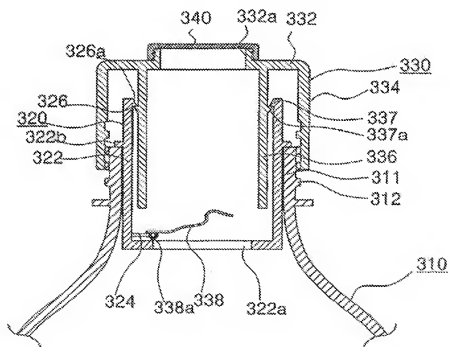


FIG. 24B

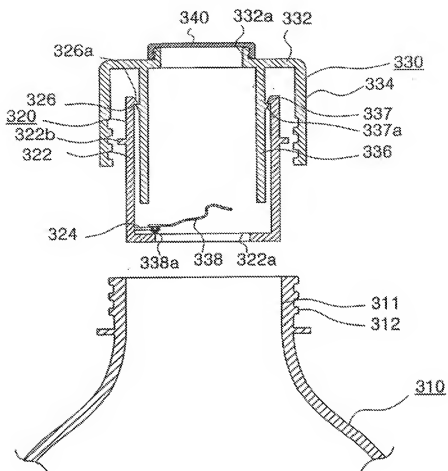


FIG. 25

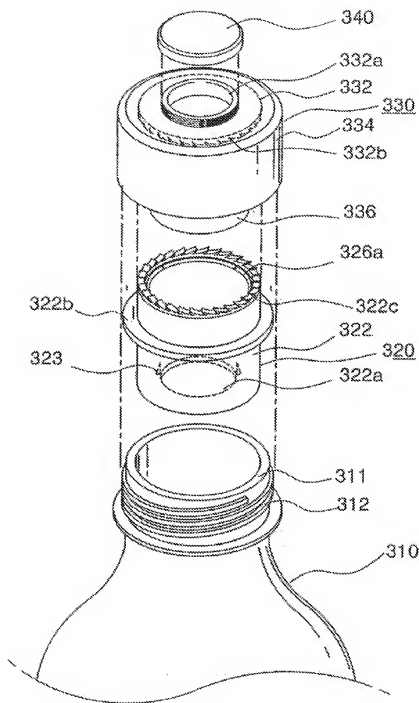


FIG. 28A



FIG. 28B



FIG. 28C



FIG. 29

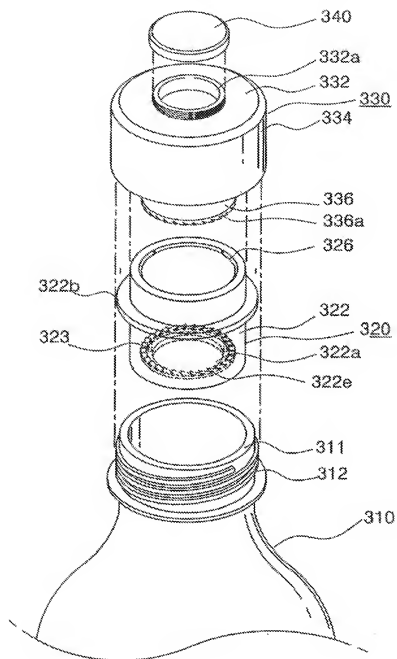


FIG. 32

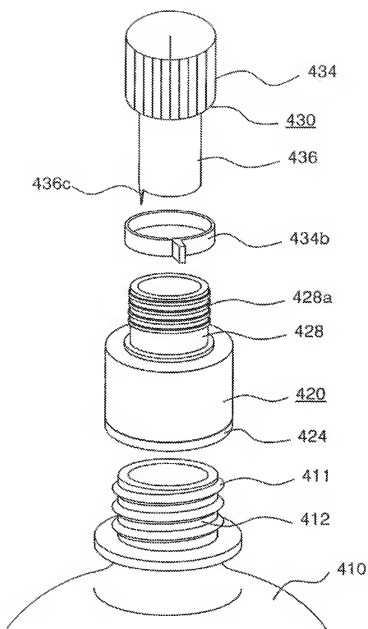


Fig.33A

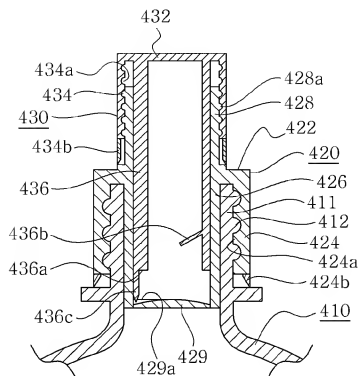
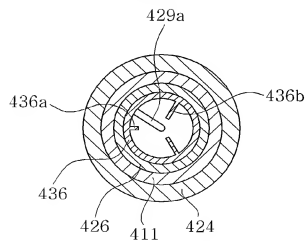


FIG 33B



Replacement Sheet

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Fig.34A

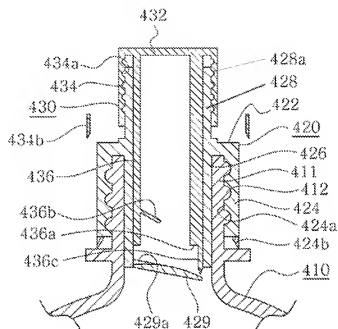


Fig.34B

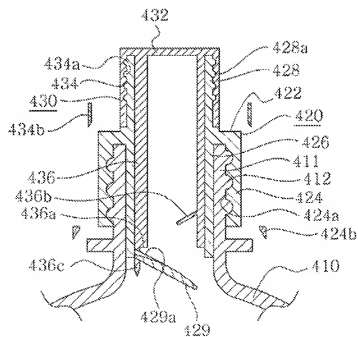
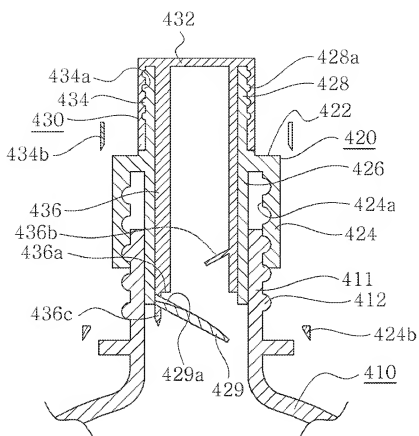
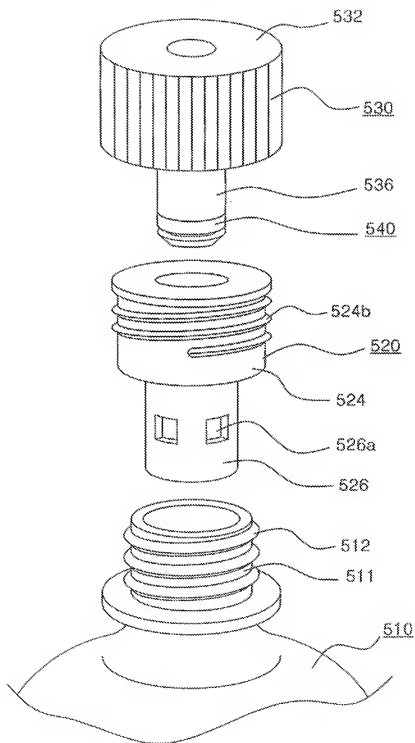


Fig.34C



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FIG. 35



Replacement Sheet

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Fig.36

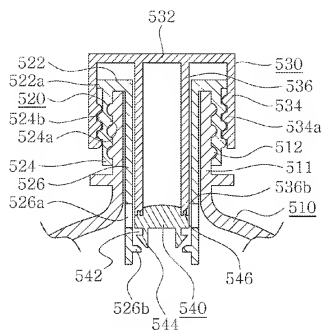


Fig.37A

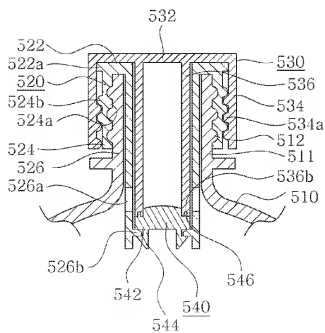


Fig.37B

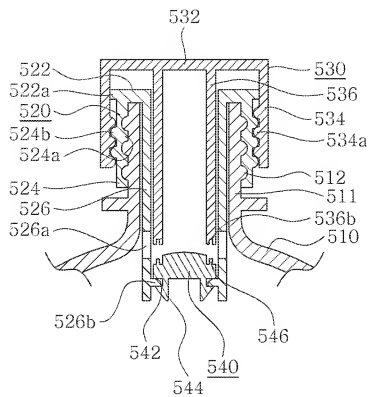
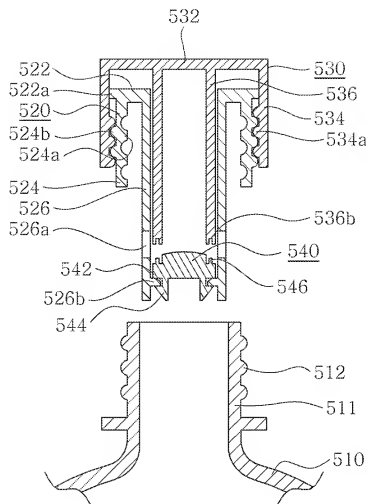


Fig.37C



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This cross-sectional view shows a central cavity (532a) within a substrate (510). The cavity is lined with a layer (536) and a top layer (530). The side walls of the cavity are composed of layers 522, 522a, 520, 524b, 524a, 524, 526, and 526a. The bottom of the cavity is formed by layers 536c and 536b. A layer (540) is located at the bottom of the cavity, and a layer (536d) is located at the bottom of the cavity. The top of the device is covered by a layer (512) and a layer (511). The bottom of the device is covered by a layer (510).

Fig.39B

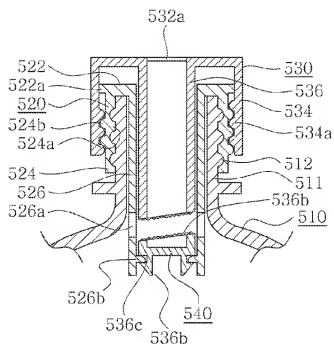
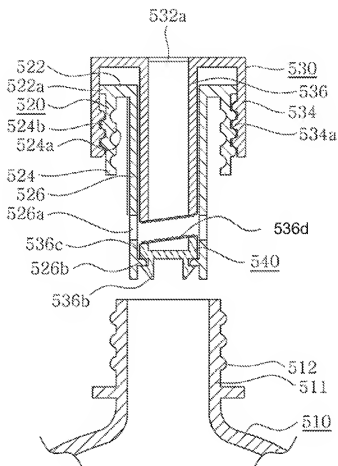


Fig.39C



Replacement Sheet

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Fig.40

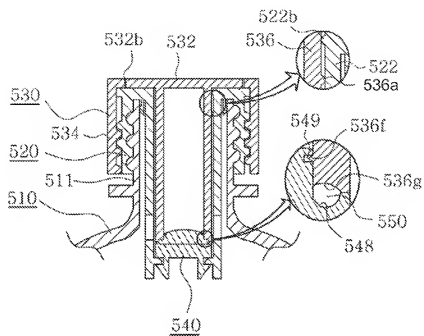


Fig.41

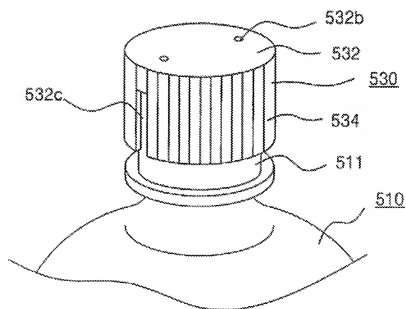
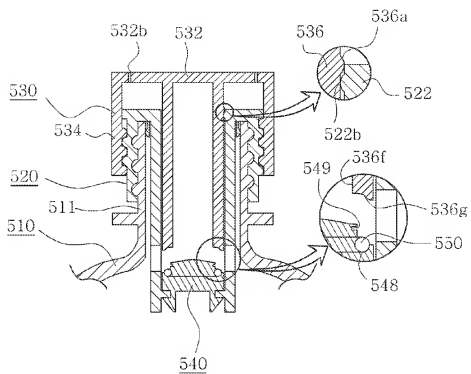


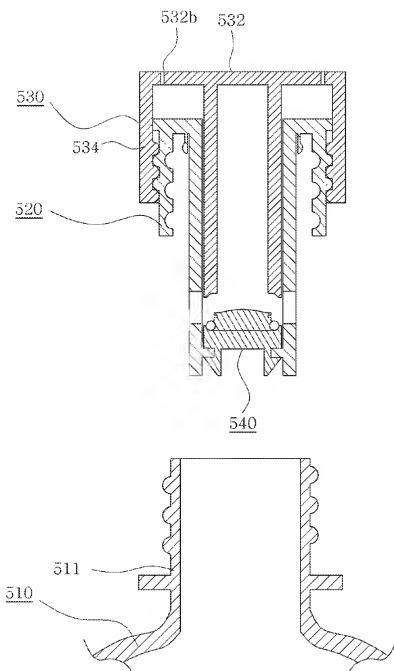
Fig.42A



Replacement Sheet

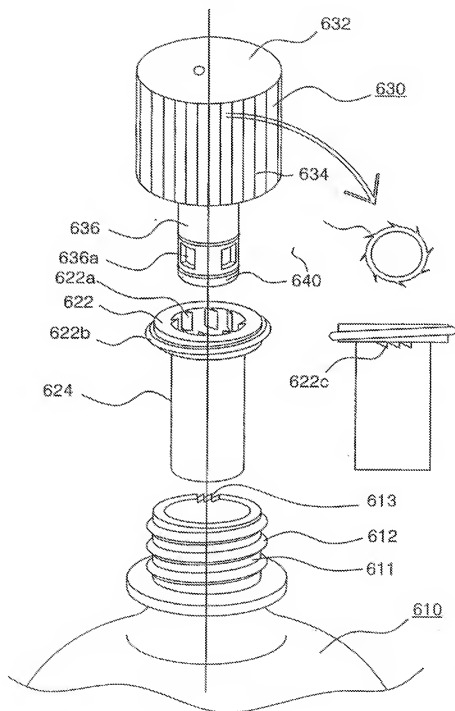
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Fig.42B



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FIG. 43



Replacement Sheet

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Fig.44

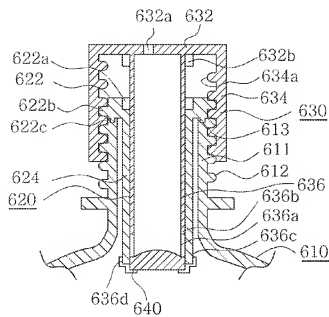
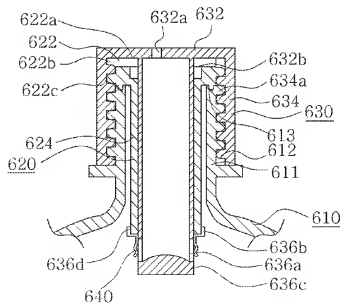


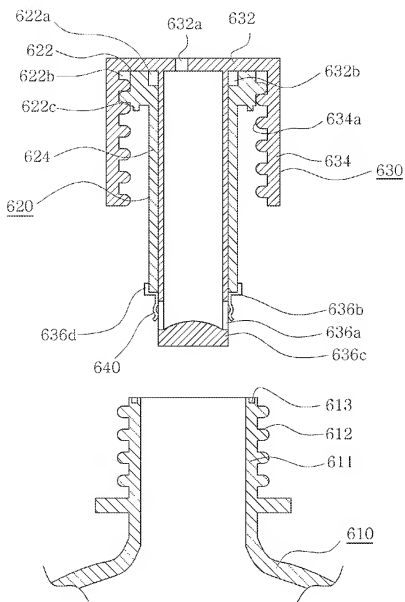
Fig.45A



Replacement Sheet

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Fig.45B



Replacement Sheet

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Fig.46A

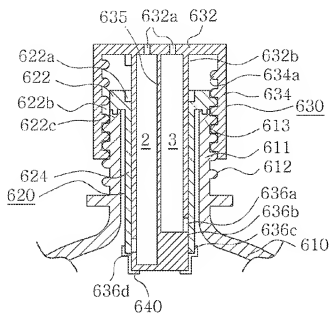
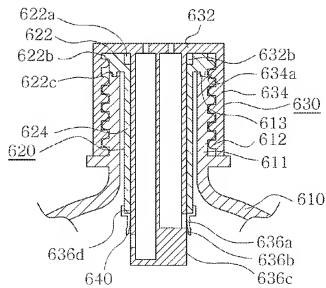


Fig.46B



Replacement Sheet

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Fig.47A

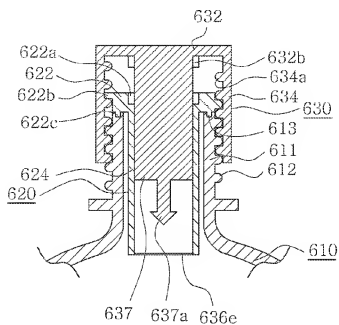
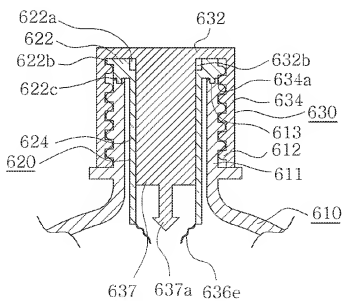


Fig.47B



Replacement Sheet

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Fig.48

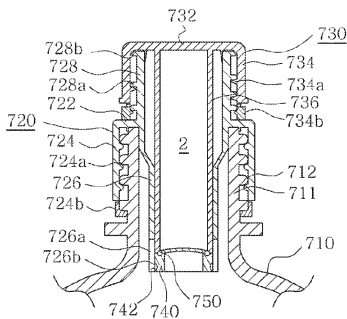
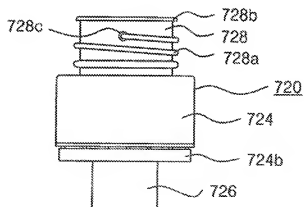


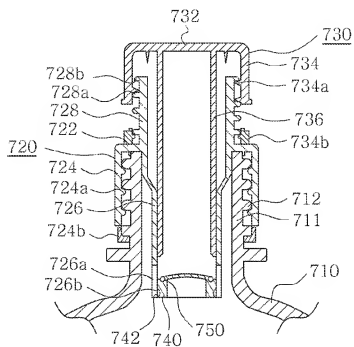
Fig.49



Replacement Sheet

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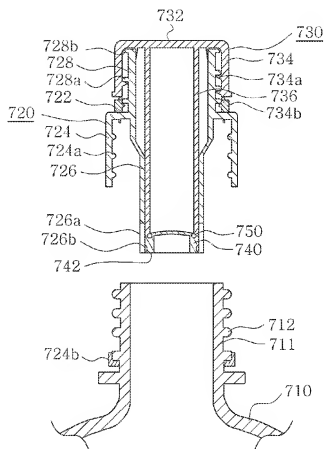
Fig.50A



Replacement Sheet

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Fig. 50B



Replacement Sheet

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Fig.51

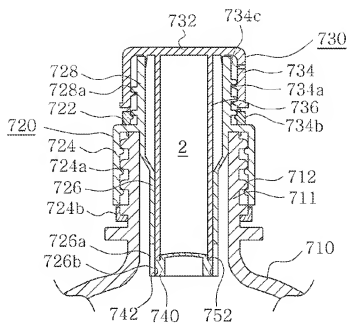
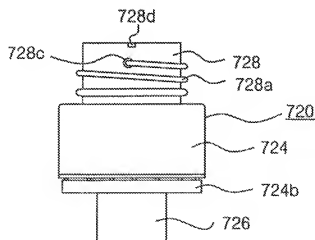


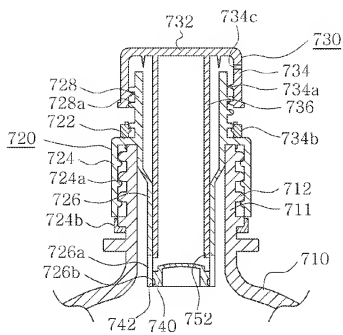
Fig.52



Replacement Sheet

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Fig.53A



Replacement Sheet

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Fig.53B

